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10/506,847	09/03/2004	Takumi Ikeda	MAT-8599US	4499
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/506,847	IKEDA ET AL.
Office Action Summary	Examiner	Art Unit
	Dzung D. Tran	2613
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed I the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>03</u>	nis action is non-final. vance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-49 is/are pending in the application 4a) Of the above claim(s) 29-49 is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 and 6-28 is/are rejected. 7) Claim(s) 5 is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and Applicant may not request that any objection to the Replacement drawing sheet(s) including the corresponding sheet(s) including sheet(s) includi	awn from consideration. /or election requirement. ner. ccepted or b) □ objected to by the se drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list 	nts have been received. nts have been received in Applicat iority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

Application/Control Number: 10/506,847 Page 2

Art Unit: 2613

DETAILED ACTION

Specification

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Alwan et al. US 7,224,908.

Regarding claim 1, Alwan discloses in Figures 3-4, an optical output unit comprising:

an external information receiver 306(b) (i.e., receiver of transmitter/receiver 16) for receiving external information representing a data transmitted from outside (i.e., from terminal 108(a));

an optical output device 304(b) for outputting light; and

an optical output controller 310(b) for performing multistage control, wherein the controller makes the optical output device produce at least one mode of optical output among at least three different modes of the optical output according to the external information (Figure 4, Col. 9, line 45 to Col. 10, line 6).

Regarding claim 2, Alwan discloses wherein the external information is composed based on a plurality of data transmitted from the outside (col. 7, lines 22-35, col. 8, lines 35-56).

Regarding claim 3, Alwan discloses wherein the optical output device includes optical output elements for outputting light, the external information includes a mode data representing a kind of information and a data value indicating a magnitude of the information represented by the mode data, and the optical output controller controls optical outputs of the optical output elements according to the mode data and the data value included in the external information received by the external information receiver (Figure 4, Col. 9, line 45 to Col. 10, line 6).

Regarding claim 7, Alwan discloses wherein the optical output controller gives a command for producing optical output in one level of intensity among at least three different levels in the multistage control (Figure 4, Col. 9, line 45 to Col. 10, line 6).

3. Claims 1-4, 6-25 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Anemogiannis et al. US 5,965,876.

Regarding claim 1, Anemogiannis discloses in Figure 2, an optical output unit comprising:

an external information receiver RX for receiving external information representing a data transmitted from outside;

an optical output device laser 40 for outputting light; and

an optical output controller 30 for performing multistage control, wherein the controller makes the optical output device produce at least one mode of optical output among at least three different modes of the optical output according to the external information (Col. 3, lines 43-55).

Regarding claim 2, Anemogiannis discloses wherein the external information is composed based on a plurality of data transmitted from the outside (see Figure 2).

Regarding claim 3, Anemogiannis discloses wherein the optical output device includes optical output elements for outputting light, the external information includes a mode data representing a kind of information and a data value indicating a magnitude of the information represented by the mode data, and the optical output controller controls optical outputs of the optical output elements according to the mode data and the data value included in the external information received by the external information receiver (Col. 3, lines 43-55).

Regarding claims 4 and 6, Anemogiannis discloses in Figure 4, a learn mode for storing each normal fiber its length and pulse intensity information (col. 3, lines 42-67).

Regarding claim 7, Anemogiannis discloses wherein the optical output controller gives a command for producing optical output in one level of intensity among at least three different levels in the multistage control (Col. 3, lines 43-55).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 10/506,847 Page 5

Art Unit: 2613

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anemogiannis et al. US 5,965,876 in view of Ackerman US 6,064,681.

Regarding claim 8, Anemogiannis does not specifically disclose wherein the optical output controller gives a command for producing optical output in one color of light among at least three different colors in the multistage control. Ackerman discloses in Figure 1, a controller 18 for controlling wavelength of the tunable laser 12 (i.e., producing optical output in one color of light among at least three different colors in the multistage control). At the time of the invention was made, it would have been obvious to an artisan to include the wavelength controller taught by Ackerman in the apparatus of Anemogiannis. One of ordinary skill in the art would have been motivated to do that in order to produce a predetermined wavelength. Thus, it improves system distribution.

Regarding claim 9, controlling the blinking of the LED is well known in the art (i.e., see Tyrell et al. US Patent no. 5,185,736, paragraph 2677).

Regarding claims 10 and 11, whether the controller gives a command for producing optical output in one way of turning a light source among at least three different ways of turning in the multistage control or gives a command for producing optical output in one area size of light source among at least three different area sizes in the multistage control is merely an engineering design choices.

6. Claims 12-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anemogiannis et al. US 5,965,876 in view of Lichter et al. US 6,712,762.

Regarding claims 16-21, Anemogiannis does not specifically disclose the external information includes a pressure data representing information on a pressure, a heart rate data representing information on a heart rate, a heart rate data representing information on a heart rate, a blood-sugar data representing information on a bloodsugar, a health condition data representing information on a health condition, a pH value data representing information on a pH value. Lichter discloses the external information includes a pressure data representing information on a pressure, a heart rate data representing information on a heart rate, a heart rate data representing information on a heart rate, a blood-sugar data representing information on a bloodsugar, a health condition data representing information on a health condition, a pH value data representing information on a pH value (Col. 8, lines 1-30). At the time of the invention was made, it would have been obvious to an artisan to include the teaching of Lichter in the apparatus of Anemogiannis. One of ordinary skill in the art would have been motivated to do that in order to provide the biological data to the control system.

Regarding claims 12-15 and 22-25, whether the external information includes information representing a speed of incoming data input or representing an operating rate of a CPU or representing information on a location or representing information on a place or representing information on an angle or representing information on rotation or representing information on electroencephalograph or the optical output unit having

any of a cubic shape, a rectangular hexahedral shape and a spherical shape is merely an engineering design choices.

Regarding claims 26-28, a repeater unit is a duplicate of the optical unit of claim

- 1. It would have been obvious to one having ordinary skill in the art at the time the invention was made to duplicate another unit cal repeater unit, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.
- 7. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Knell et al. U.S. Patent no. 6,468,213. Medical diagnostic ultrasound system and method
- b. Green et al. U.S. Publication no. 2006/0018661. Alignment system

Application/Control Number: 10/506,847 Page 8

Art Unit: 2613

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dzung D Tran whose telephone number is (571) 272-

3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jason Chan, can be reached on (571) 272-3022. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

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Dzung Tran

03/01/2008

/Dzung D Tran/

Primary Examiner, Art Unit 2613